



P.B. 5818 - Patentlaan 2
2280 HV Rijswijk (ZH)
T (070) 3 40 20 40
FAX (070) 3 40 30 16

Europäisches
Patentamt

European
Patent Office

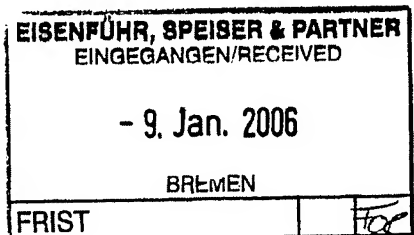
Office européen
des brevets

Generaldirektion 1

Directorate General 1

Direction générale 1

Eisenführ, Speiser & Partner
Patentanwälte Rechtsanwälte
Postfach 10 60 78
28060 Bremen
ALLEMAGNE



EPO Customer Services

Tel.: +31 (0)70 340 45 00

Date

11-01-2006

Reference N 2086	Application No./Patent No. 02005595.0 - 2425
Applicant/Proprietor NORDSON CORPORATION	

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report (under R. 44 or R. 45 EPC) for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

- ☐ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division :

- ☒ Abstract ☒ Title

- ☒ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract : 1

Refund of search fee

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 0 936 000 A (NORDSON CORPORATION) 18 August 1999 (1999-08-18) * paragraph [0001] - paragraph [0011] * * paragraph [0013] - paragraph [0035] * * paragraph [0041] - paragraph [0049] * * figures 3,4 * -----	1,7,15, 18,20,26	B05B7/08 B05C5/02
E	EP 1 201 320 A (NORDSON CORPORATION) 2 May 2002 (2002-05-02) * paragraph [0001] - paragraph [0002] * * paragraph [0018]; figures 1,2 * -----	1,7,15, 18,20,26	
A	US 5 169 071 A (BOGER ET AL) 8 December 1992 (1992-12-08) * column 6, line 28 - column 8, line 37; figures 1-3 * -----	1	
A	US 4 969 602 A (SCHOLL ET AL) 13 November 1990 (1990-11-13) * column 6, line 57 - column 9, line 31; figures 1-3 * -----	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			B05B B05C
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		25 November 2005	van der Bijl, S
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 00 5595

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-11-2005

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0936000	A	18-08-1999	JP	11267568 A	05-10-1999
			US	6210141 B1	03-04-2001
EP 1201320	A	02-05-2002	US	6378784 B1	30-04-2002
US 5169071	A	08-12-1992	NONE		
US 4969602	A	13-11-1990	NONE		



ABSTRACT / ZUSAMMENFASSUNG / ABREGE

02005595.0

A system for dispensing liquid material with different configurations of air assisted fiberization or filament movement (e.g., meltblowing, controlled fiberization). In particular, front access for mounting a selected nozzle only requires adjustment of one lever (40) and one fastener. Features of the lever (40) and nozzle (32) allow assisted ejection of the nozzle (32), even when the nozzle has become adhered to a die body through use. In addition, a nozzle mounting surface (36) of the die body provides a universal interface to the various types of nozzles. An air cavity in the die body and air troughs (24,26) in selected types of nozzles balance and adjust air flow.



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-32



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-32: nozzle ejecting/positioning lever

Special technical feature: a pivoting lever that allows in a first position to mount a nozzle to a nozzle mounting surface and in a second position to eject the nozzle.
Problem solved: easy and quick changing of nozzles.

2. claim: 33: optimized valve

Special technical feature: a diaphragm coupled to the valve member divides the chamber in two portions, a plug selectively opens and closes an exhaust port to allow air out of the first portion to allow opening of the valve.
problem solved: allow a valve to be controlled in two ways:
1. air injected in the lower chamber moves the valve with the diaphragm upwards opening the valve, when the air pressure is gone the spring forces the valve down. (plug open)
2. air injected in the upper chamber forces the valve downwards. (plug closed)
